



INSTRUCTION SHEET FOR 501900-31XX BACK-UP LIGHT CORNER LED HEADS

SAFETY MESSAGE TO INSTALLERS AND USERS



People's lives depend on your safe installation of our products. It is important to read, understand and follow all instructions shipped with the products. In addition, listed below are some other important safety instructions and precautions you should follow:

- To properly install lighting system, you must have a good understanding of automotive systems, along with proficiency in the installation and use of safety warning equipment.
- This product contains high intensity LED devices. To prevent permanent eye damage, DO NOT stare into the light beam at close range.
- DO NOT install equipment or route wiring in the deployment path of an air bag.
- When drilling into a vehicle structure, be sure that both sides of the surface are clear of anything that could be damaged.
- A light system is a high current device. In order for it to function properly, a separate ground connection must be made. If practical, it should be connected to the negative battery terminal. At a minimum, it may be attached to a solid metal body or chassis part that will provide an effective ground path as long as the light system is used.
- Locate the light system controls so the VEHICLE and CONTROLS can be operated safely under all driving conditions.
- The mounting system should be periodically inspected to ensure that it is securely attached to the vehicle.
- File these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death to you or others.

A. GENERAL.

The Model 501900-31XX is a pair of LED light heads for the back-up lamp housings of the Ford Crown Victoria. The LEDs utilize polycarbonate TIR Collimators and Fresnel lenses for maximum light output. These units are

designed for use ONLY with Federal Signal Corner LED electronic flasher, Model 501903. The unit is supplied with mounting hardware. It has an operating temperature range of -40°C to +65°C.

B. UNPACKING.

After unpacking the kit, inspect it for damage that may have occurred in transit. If the unit has been damaged, do not attempt to install or operate it. File a claim immediately with the carrier, stating the extent of damage. Carefully check all envelopes, shipping labels, and tags before removing or destroying them. Ensure that the parts listed in the appropriate KIT CONTENTS LIST are included in the package.

C. KIT CONTENTS LIST.

Qty.	Description	Part No.
4	Screw, Hex Hd., #10 Type B	7011A122-12
2	Gasket, CV RR, Corner LED	8622111

D. INSTALLATION.

NOTE

Installation can be accomplished using the supplied hardware. The light heads come with AMP or Weather-Pack connectors and may be used with the appropriate Federal Signal Ricochet® Cable Kits. The basic light functions of the unit must be controlled by a user-supplied Federal Signal Corner LED electronic flasher, Model 501903.



Before drilling holes in ANY part of vehicle, be sure that both sides of the mounting surface are clear of parts that could be damaged, such as brake lines, fuel lines, electrical wiring or other vital parts.



Connecting these LED light heads to a strobe power supply will result in immediate failure of the LED light heads and may damage the strobe power supply.

1. Following the directions in the vehicle manufacturer's service manual, remove the rear panel containing the back-up lamp assemblies. Remove the back-up lamp sockets.

2. Cut-out the included hole template. See figure 1. Position the template so that the smaller hole is centered on the hole for the back-up lamp socket. Mark the center of the 1-1/2" diameter hole.

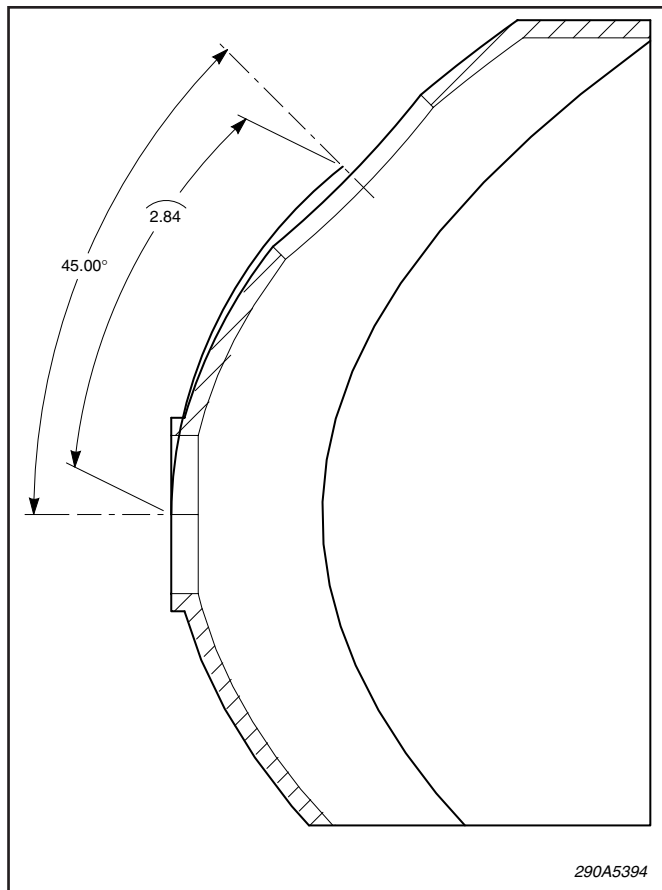


Figure 1.

3. To aid cutting, remove the boss surrounding the vent hole then using a hole saw, drill the 1-1/2" hole at a 45-degree angle as shown in figure 1.

4. See figure 2. Position the LED light head as shown and mark the two small holes. Drill the two small holes with a 5/32" drill. Deburr all the holes then thoroughly clean the housing to remove all chips.

CAUTION

The surfaces to which the adhesive gasket is applied must be clean and dry for proper adhesion. If necessary, use isopropyl alcohol (rubbing alcohol) and water to clean the mounting surface.

5. Peel the backing from one side of the gasket and apply the gasket to the LED light head. Peel the remaining backing and insert the LED light head into the housing.

CAUTION

Do not over-tighten the screws.

6. Install the supplied screws using care not to cock the LED light head.

7. Seal the perimeter of the LED light head with RTV (user-supplied) to maximize moisture protection.

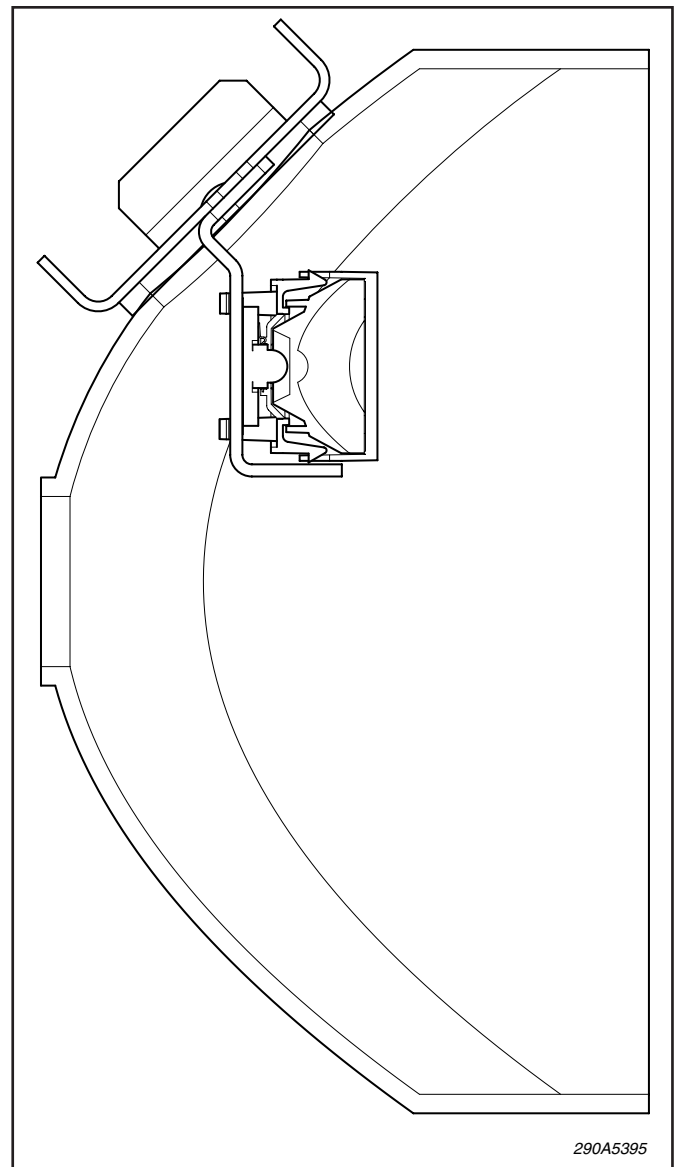


Figure 2.

8. Repeat steps 1 - 7 for the opposite side.

E. ELECTRICAL.

See figure 3 and refer to the instructions supplied with the Federal Signal Corner LED electronic flasher.

F. TESTING.

WARNING

This product contains high output LED devices. To prevent permanent eye damage, do not stare into the light beam at close range.

After Installation, check the entire system to be sure the lights are flashing properly and all light system functions are operating properly.

SAFETY MESSAGE TO OPERATORS

⚠ WARNING

People's lives depend on your safe use of our products.

Listed below are some important safety instructions and precautions you should follow:

- Although your warning system is operating properly, it may not be completely effective. People may not see or heed your warning signal. You must recognize this fact and continue driving cautiously.
- Also, situations may occur which obstruct your warning signal when natural or man-made objects are between your vehicle and others, such as: raising your hood or trunk lid. If these situations occur, be especially careful.
- At the start of your shift, you should ensure that the light is securely attached and operating properly.

Failure to follow these safety precautions may result in property damage, serious injury, or death to you, to passengers, or to others.

RETAIN AND REFER TO THIS MESSAGE

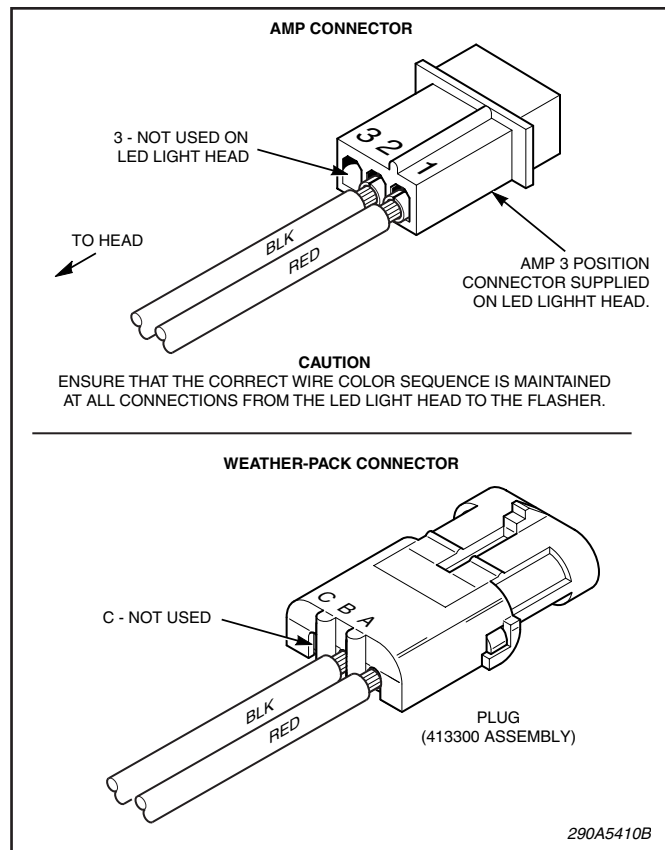


Figure 3.

H. REPLACEMENT PARTS.

Color	Part No.
LED assy., BLU BU CV, AMP	8622133-03
LED assy., RED BU CV, AMP	8622133-04
LED assy., WHT BU CV, AMP	8622133-05
LED assy., BLU BU CV, Weather-Pack	8622133-13
LED assy., RED BU CV, Weather-Pack	8622133-14
LED assy., WHT BU CV, Weather-Pack	8622133-15

Manufactured by:
Federal Signal Corporation
Emergency Products Group
2645 Federal Signal Drive
University Park, Illinois 60466

Copyright 2005 Federal Signal Corporation

